

Abstract

[0040] An improved and enhanced hydrodynamic fluid film bearing for rotatably supporting a shaft journal is provided and includes a stationary retaining member, at least two generally cylindrical foil elements attached to one another and forming an anti-rotation fin, and a generally cylindrical resilient backing member. The retaining member has an inner surface defining a cylindrical opening for receiving a shaft journal. The inner surface also includes a longitudinally extending slot in which the anti-rotation fin formed by the foil elements is mounted so that the foil elements line at least a portion of the cylindrical opening. The resilient member is also disposed within the cylindrical opening generally concentric to and radially outward from the foil elements. The foil elements may be discrete elements attached together to form the anti-rotation fin, or alternatively formed from a single foil with a bend defining the anti-rotation fin.